EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"017504".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:05
L2	2	("6300957").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:11
L3	64452	((cluster$3 or aggregat$3 or group$3) with (structur$3 or hierarch$3 or tree)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:47
L4	1083	(categor$3 with (structur$3 or hierarch$3 or tree)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:14
L5	122	3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:13
L6	136	((modif$6 or updat$3 or chang$3 or edit$4) near categor$3 with (structur$3 or tree or hierarch$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:48
L7	1	5 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:14
L8	12571	(categor$3 with (structur$3 or hierarch$3 or tree))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:14

EAST Search History

L9	1	6 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:14
L10	783	((modif$6 or updat$3 or chang$3 or edit$4) with categor$3 with (structur$3 or tree or hierarch$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:15
L11	18	10 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:15
L12	7	11 and @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:53
L13	73	10 and 4 and @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:18
L14	18	((cluster$3 or aggregat$3 or group$3) with (structur$3 or hierarch$3 or tree)) and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:19
L15	2048	((cluster$3) with (structur$3 or hierarch$3 or tree)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:44
L16	55	(organizat$3 with (cluster$3 or aggregat$3 or group$3) with (structur$3 or hierarch$3 or tree)). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 15:05

EAST Search History

L17	0	((modif$6 or updat$3 or chang$3 or edit$4) near categor$3 with (structur$3 or tree or hierarch$3)) and 16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:48
L18	1	((modif$6 or updat$3 or chang$3 or edit$4) with categor$3 with (structur$3 or tree or hierarch$3)) and 16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 15:06
L19	4	(organizat$3 with (cluster$3 or aggregat$3 or group$3) with (structur$3 or hierarch$3 or tree)). ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:52
L20	98	(organizat$3 with (cluster$3 or aggregat$3 or group$3) with (structur$3 or hierarch$3 or tree)). clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:51
L21	1	((modif$6 or updat$3 or chang$3 or edit$4) with categor$3 with (structur$3 or tree or hierarch$3)) and 20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 13:48
L22	1220	(organizat$3 with (cluster$3 or aggregat$3 or group$3) with (structur$3 or hierarch$3 or tree))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:52
L23	21	((modif$6 or updat$3 or chang$3 or edit$4) with categor$3 with (structur$3 or tree or hierarch$3)) and 22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 12:53
L24	7	23 and @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:54

EAST Search History

L25	118	((classification or cluster$3) near document$1) and 8 and @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 13:48
L26	4	((modif$6 or updat$3 or chang$3 or edit$4) with categor$3 with (structur$3 or tree or hierarch$3)) and 25	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 13:55
L27	3	((modif$6 or updat$3 or chang$3 or edit$4) with categor$3 with (structur$3 or tree or hierarch$3)) and 25 and vector	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:22
L28	2	("6446061").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:36
L29	2	("6671818").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:36
L30	21278049	((cluster$3 or group$3 or classificat$3) with categor$3 with (structur$3 or tree or hierarch$3))". " "ab." and (cluster$3 with categor$4) @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:49
L31	21277215	((cluster$3 or group$3 or classificat$3) with categor$3 with (structur$3 or tree or hierarch$3)). ab. and (cluster$3 with categor$4) @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:50
L32	21277213	((cluster$3 or group$3 or classificat$3) with categor$3 with (structur$3 or tree or hierarch$3)). ab. and (cluster$3 near categor$4) @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:50

EAST Search History

L33	7902	32 and (categor$3 with (similar$3 or rank$3 or scor$3 or weight$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:53
L34	1587	32 and (categor$3 near (similar$3 or rank$3 or scor$3 or weight$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:52
L35	1865	33 and ((tree or structur$3 or hierarch$3) with (similar$3 or rank$3 or scor$3 or weight$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:54
L36	371	34 and 35	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:54
L37	20	((modif$6 or updat$3 or chang$3 or edit$4) with categor$3 with (structur$3 or tree or hierarch$3)) and 36	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:54
L38	20	37 and @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 14:54
L39	69	(organizat$3 with (cluster$3 or aggregat$3 or group$3 or classif$6) with (structur$3 or hierarch$3 or tree)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 15:05
L40	3	((modif$6 or updat$3 or chang$3 or edit$4) with categor$3 with (structur$3 or tree or hierarch$3 or classif$6)) and 39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 15:09

EAST Search History

L41	1	39 and (707/100).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 15:12
L42	1	39 and (707/3).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 15:12
L43	0	39 and (707/5).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/17 15:12

Web Results **1 - 10** of about **23** for **"organization structure" "clustering process" categories classification**.

[PDF] How do we find information on the Web
File Format: PDF/Adobe Acrobat - View as HTML
In **classification**, **categories** are first determined and objects are assigned to them ... effectiveness while speeding up the **clustering process** by working in ...
ils.unc.edu/yangk/dissertation/litrev_io.pdf - Similar pages

[PDF] Hedge Fund **Classification** using K-means Clustering Method
File Format: PDF/Adobe Acrobat
affects the **clustering process** adversely, the attributes should be ... All the eight funds of the same **category** in six-cluster **classification** moved ...
depts.washington.edu/sce2003/Papers/284.pdf - Similar pages

JSTOR: The Resurrection of Taxonomy to Aid the Development of ...
He raises the possibility that these **categories**, while they provide an obvious and handy basis for **classification**, may be essentially useless for ...
links.jstor.org/sici?sici=0001-8392(197903)24%3A1%3C99%3ATROTTA%3E2.0.CO%3B2-N - Similar pages

[PDF] Visual research topic discovery with MULTI-SOM model of analysis
File Format: PDF/Adobe Acrobat - View as HTML
SOM **clustering process** and then the area division principle. Since this model is based on ... If we consider the **classification** code indexing the data, ...
www.eicstes.org/EICSTES_PDF/PAPERS/Visual%20research%20topic%20discovery%20with%20MULTI-SOM%20model%20of%... - Similar pages

[PDF] Key words Cluster, clustering effects, network, internet, social ...
File Format: PDF/Adobe Acrobat - View as HTML
included in this **classification** as we know it is still too early for ... the **clustering process**. As long as a company is located within a cluster, ...
in3.dem.ist.utl.pt/master/thesis/99files/thesis08.pdf - Similar pages

[PDF] Towards Personalized Web Intelligence
File Format: PDF/Adobe Acrobat - View as HTML
ters, we can treat all clusters under a theme or **category** label as a **category** and. evaluate the system like a categorization or **classification** system. ...
www.ntu.edu.sg/sce/labs/erlab/publications/papers/ahtan/WI_KAIS.pdf - Similar pages

[DOC] CHAPTER FOUR
File Format: Microsoft Word - View as HTML
They classified a spectrum of user behavior with electronic journals into a typology of **categories** of user. The **classification** and associated analysis was ...
drtc.isibang.ac.in/~aparajita/project/project%20appu/Project/CHAPTER%204.doc - Similar pages

[PDF] CONNECTIONS
File Format: PDF/Adobe Acrobat - View as HTML
This paper examines how a unique **organization structure** promotes a high level of ... broader clusters, the **clustering process** is shown to remain at least as ...
www.insna.org/Connections-Web/Volume05/connections1982_V-1.pdf - Similar pages

[PDF] CRANFIELD UNIVERSITY Perceptions of innovations: exploring and ...
File Format: PDF/Adobe Acrobat
by invoking one of three **categories** of **classification** (newness, ... output of the **clustering process**. In fact, the dendrogram is a graphical representation ...
dspace.lib.cranfield.ac.uk:8080/bitstream/1826/124/2/adams.pdf - Similar pages

[PDF] A Migratory Perspective of Technologys Role in Supply chain ...
File Format: PDF/Adobe Acrobat
Performance Measures: A breakdown into the **categories** of business and operational ... **Organization Structure**: Empowerment or Subordination? ...
www.ifm.eng.cam.ac.uk/cim/imnet/symposium2003/papers/aryee.pdf - Supplemental Result - Similar pages

Result Page: 1 2 3 **Next**

Terms used **organization structure clustering process categories classification**

Found **95,532** of **186,958**

Sort results by: relevance

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Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next

Best 200 shown

Relevance scale

1 Knowledge management session 4: indexing: Bootstrapping for hierarchical document classification

Giordano Adami, Paolo Avesani, Diego Sona

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(180.73 KB) Additional Information: full citation, abstract, references, index terms

Managing the hierarchical organization of data is starting to play a key role in the knowledge management community due to the great amount of human resources needed to create and maintain these organized repositories of information. Machine learning community has in part addressed this problem by developing hierarchical supervised classifiers that help maintainers to categorize new resources within given hierarchies. Although such learning models succeed in exploiting relational knowledge, they ...

Keywords: TaxSOM, constrained clustering, k-means, taxonomy bootstrapping process, text categorization

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

4 DB-1 (databases): data integration: Organizing structured web sources by query schemas: a clustering approach

Bin He, Tao Tao, Kevin Chen-Chuan Chang

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available: pdf(323.72 KB) Additional Information: full citation, abstract, references, index terms, review

In the recent years, the Web has been rapidly "deepened" with the prevalence of databases online. On this deep Web, many sources are structured by providing structured query interfaces and results. Organizing such structured sources into a domain hierarchy is one of the critical steps toward the integration of heterogeneous Web sources. We observe that, for structured Web sources, query schemas ie, attributes in query interfaces) are discriminative representative ...

Keywords: data integration, deep Web, hierarchical agglomerative clustering

5 THESUS: Organizing Web document collections based on link semantics

Maria Halkidi, Benjamin Nguyen, Iraklis Varlamis, Michalis Vazirgiannis

November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(262.85 KB) Additional Information: full citation, abstract, citings, index terms

The requirements for effective search and management of the WWW are stronger than ever. Currently Web documents are classified based on their content not taking into account the fact that these documents are connected to each other by links. We claim that a page's classification is enriched by the detection of its incoming links' semantics. This would enable effective browsing and enhance the validity of search results in the WWW context. Another aspect that is underaddressed and str ...

Keywords: Document clustering, Link analysis, Link management, Semantics, Similarity measure, World Wide Web

6 Taxonomy generation for text segments: A practical web-based approach

Shui-Lung Chuang, Lee-Feng Chien

October 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(875.31 KB) Additional Information: full citation, abstract, references, index terms

It is crucial in many information systems to organize short text segments, such as

keywords in documents and queries from users, into a well-formed taxonomy. In this article, we address the problem of taxonomy generation for diverse text segments with a general and practical approach that uses the Web as an additional knowledge source. Unlike long documents, short text segments typically do not contain enough information to extract reliable features. This work investigates the possibilities of u ...

Keywords: Taxonomy generation, hierarchical clustering, partitioning, search-result snippet, text data mining, text segment

7 A semi-supervised document clustering technique for information organization

Han-Joon Kim, Sang-Goo Lee

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(261.40 KB) Additional Information: full citation, references, citings, index terms

Keywords: agglomerative hierarchical clustering, document clustering, fuzzy information retrieval, information organization, relevance feedback

8 Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(4.28 MB) Additional Information: full citation, abstract, references, citings, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

9 Improving statistical language model performance with automatically generated word hierarchies

John G. McMahon, Francis J. Smith

June 1996 **Computational Linguistics**, Volume 22 Issue 2

Publisher: MIT Press

Full text available: pdf(2.02 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

An automatic word-classification system has been designed that uses word unigram and bigram frequency statistics to implement a binary top-down form of word clustering and employs an average class mutual information metric. Words are represented as *structural tags*---n-bit numbers the most significant bit-patterns of which incorporate class information. The classification system has revealed some of the lexical structure of English, as well as some phonemic and semantic structure. The syst ...

10 Automated techniques for managing collections: Machine learning for information

architecture in a large governmental website
Miles Efron, Jonathan Elsas, Gary Marchionini, Junliang Zhang
June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, index terms

This paper describes ongoing research into the application of machine learning techniques for improving access to governmental information in complex digital libraries. Under the auspices of the GovStat Project, our goal is to identify a small number of semantically valid concepts that adequately spans the intellectual domain of a collection. The goal of this discovery is twofold. First we desire a practical aid for information architects. Second, automatically derived document-concept relations ...

Keywords: information architecture, interface design, machine learning

11 Research track: SEWeP: using site semantics and a taxonomy to enhance the Web personalization process
M. Eirinaki, M. Vazirgiannis, I. Varlamis
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**
Publisher: ACM Press
Full text available: pdf(429.65 KB) Additional Information: full citation, abstract, references, citings, index terms

Web personalization is the process of customizing a Web site to the needs of each specific user or set of users, taking advantage of the knowledge acquired through the analysis of the user's navigational behavior. Integrating usage data with content, structure or user profile data enhances the results of the personalization process. In this paper, we present SEWeP, a system that makes use of both the usage logs and the semantics of a Web site's content in order to personalize it. Web content is ...

Keywords: Web mining, Web personalization, concept hierarchies, semantic annotation of Web content

12 Hierarchical file organization and its application to similar-string matching
Tetsuro Ito, Makoto Kizawa
September 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 3
Publisher: ACM Press
Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms

The automatic correction of misspelled inputs is discussed from a viewpoint of similar-string matching. First a hierarchical file organization based on a linear ordering of records is presented for retrieving records highly similar to any input query. Then the spelling problem is attacked by constructing a hierarchical file for a set of strings in a dictionary of English words. The spelling correction steps proceed as follows: (1) find one of the best-match strings which are most similar to ...

Keywords: best match, file organization, good match, hierarchical clustering, linear ordering, office automation, similar-string, similarity, spelling correction, text editor

13 Web clustering and usage mining: Clustering documents in a web directory
Giordano Adami, Paolo Avesani, Diego Sona
November 2003 **Proceedings of the 5th ACM international workshop on Web**

information and data management

Publisher: ACM Press

Full text available: pdf(180.53 KB) Additional Information: full citation, abstract, references, index terms

Hierarchical categorization of documents is a task receiving growing interest due to the widespread proliferation of topic hierarchies for text documents. The worst problem of hierarchical supervised classifiers is their high demand in terms of labeled examples, whose amount is related to the number of topics in the taxonomy. Hence, bootstrapping a huge hierarchy with a proper set of labeled examples is a critical issue. In this paper, we propose some solutions for the bootstrapping problem, imp ...

Keywords: TaxSOM, constrained clustering, digital libraries, k-means, knowledge management, taxonomy bootstrapping process, text categorization, web directories

14 Posters: Content-based image retrieval by clustering

Yixin Chen, James Z. Wang, Robert Krovetz

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Publisher: ACM Press

Full text available: pdf(658.35 KB) Additional Information: full citation, abstract, references, citings, index terms

In a typical content-based image retrieval (CBIR) system, query results are a set of images sorted by feature similarities with respect to the query. However, images with high feature similarities to the query may be very different from the query in terms of semantics. This is known as the semantic gap. We introduce a novel image retrieval scheme, CLUster-based rEtrieval of images by unsupervised learning (CLUE), which tackles the semantic gap problem based on a hypothesis: *semantically simil ...*

Keywords: *content-based image retrieval, image classification, spectral graph clustering, unsupervised learning*

15 Generation and search of clustered files

G. Salton, A. Wong

December 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(1.78 MB) Additional Information: full citation, abstract, references, citings, index terms

A classified, or clustered file is one where related, or similar records are grouped into classes, or clusters of items in such a way that all items within a cluster are jointly retrievable. Clustered files are easily adapted to broad and narrow search strategies, and simple file updating methods are available. An inexpensive file clustering method applicable to large files is given together with appropriate file search methods. An abstract model is then introduced to predict the retrieval ...

Keywords: automatic classification, cluster searching, clustered files, fast classification, file organization, probabilistic models

16 A unified framework for model-based clustering

Shi Zhong, Joydeep Ghosh

December 2003 **The Journal of Machine Learning Research**, Volume 4

Publisher: MIT Press

Full text available: pdf(851.48 KB) Additional Information: full citation, abstract, index terms

Model-based clustering techniques have been widely used and have shown promising results in many applications involving complex data. This paper presents a unified framework for probabilistic model-based clustering based on a bipartite graph view of data and models that highlights the commonalities and differences among existing model-based clustering algorithms. In this view, clusters are represented as probabilistic models in a model space that is conceptually separate from the data space. For ...

17 Named entities 2: Automatic feature thesaurus enrichment: extracting generic terms from digital gazetteer

Jun Wang, Ning Ge

June 2006 **Proceedings of the 6th ACM/IEEE-CS joint conference on Digital libraries JCDL '06**

Publisher: ACM Press

Full text available: pdf(517.02 KB) Additional Information: full citation, abstract, references, index terms

ADL Gazetteer is a digitalized worldwide gazetteer developed in the Alexandria Digital Library (ADL) Project, which contains millions of geographic names (placenames). The placenames are indexed with type terms from the ADL Feature Type Thesaurus (FTT), a hierarchical category scheme. The paper proposes a two-step method to enrich the category scheme automatically: to discover frequent generic terms by detecting phase boundaries with a mutual information-based method, and to correlate the generi ...

Keywords: automatic gazetteer updating, correlation analysis, digital gazetteer, generic term extraction

18 Research track posters: A framework for ontology-driven subspace clustering

Jinze Liu, Wei Wang, Jiong Yang

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

Publisher: ACM Press

Full text available: pdf(685.02 KB) Additional Information: full citation, abstract, references, index terms

Traditional clustering is a descriptive task that seeks to identify homogeneous groups of objects based on the values of their attributes. While domain knowledge is always the best way to justify clustering, few clustering algorithms have ever take domain knowledge into consideration. In this paper, the domain knowledge is represented by hierarchical ontology. We develop a framework by directly incorporating domain knowledge into clustering process, yielding a set of clusters with strong ontolog ...

Keywords: ontology, subspace clustering, tendency preserving

19 IR-2 (information retrieval): web information retrieval: A practical web-based approach to generating topic hierarchy for text segments

Shui-Lung Chuang, Lee-Feng Chien

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available: pdf(351.23 KB) Additional Information: full citation, abstract, references, citings, index terms

It is crucial in many information systems to organize short text segments, such as keywords in documents and queries from users, into a well-formed topic hierarchy. In this paper, we address the problem of generating topic hierarchies for diverse text segments with a general and practical approach that uses the Web as an additional knowledge source. Unlike long documents, short text segments typically do not contain enough

information to extract reliable features. This work investigates the p ...

Keywords: clustering, partitioning, search-result snippet, text segment, topic hierarchy generation, web data mining

20 Image and cultural digital libraries: Time as essence for photo browsing through personal digital libraries

Adrian Graham, Hector Garcia-Molina, Andreas Paepcke, Terry Winograd
July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM Press

Full text available: pdf(3.39 MB) Additional Information: full citation, abstract, references, citings, index terms

We developed two photo browsers for collections with thousands of time-stamped digital images. Modern digital cameras record photo shoot times, and semantically related photos tend to occur in bursts. Our browsers exploit the timing information to structure the collections and to automatically generate meaningful summaries. The browsers differ in how users navigate and view the structured collections. We conducted user studies to compare the two browsers and an un-summarized image browser. Our r ...

Keywords: ACDSee, burst identification, image browser, personal digital library, photo browser, summarization, time-based clustering, time-based navigation

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